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# PATENT ABSTRACTS OF JAPAN

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## (54) HOLLOW YARN MEMBRANE FILTER

### (57) Abstract:

**PURPOSE:** To prevent the damage of a hollow yarn and to perform effective backwashing, by a method wherein hollow yarns are arranged so that the length of each of the hollow yarns between both adhesive filling parts is so excessive as to satisfy a specific condition with respect to the interval between both adhesive filling parts.

**CONSTITUTION:** In a hollow yarn membrane filter 2, the length L1 of each of the hollow yarns 2a arranged in a slightly loosened state between upper and lower end adhesive filling parts 6 is set so that an excessive length  $\Delta L$  satisfies the relation  $0.01 \leq \Delta L/L1 \leq 0.04$  (wherein  $\Delta L = L1 - L2$ ) with respect to the distance L2 between both adhesive filling parts 6. By this method, the whirling-up of the hollow yarns 2a at the time of backwashing and the accompanying

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entanglement, bending or breakage can be prevented and, since the hollow yarns 2a are shaken properly, effective backwashing can be performed. Further, a solid component released at the time of backwashing is not accumulated in the hollow yarn membrane filter 2. Furthermore, a liquid effectively flows around the hollow yarns 2a positioned at a central part at the time of filtering.

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